

mono(meth)allyl isophthalate, mono(meth)allyl terephthalate, mono(meth)allyl succinate, mono(meth)allyl trimellitate, mono(meth)allyl succinate, mono(meth)allyl ricinolate, mono(meth)allyl maleate, di(meth)allyl adipate, di(meth)allyl sebacate, di(meth)allyl phthalate, di(meth)allyl isophthalate, di(meth)allyl terephthalate, di(meth)allyl succinate, di(meth)allyl trimellitate, di(meth)allyl succinate, di(meth)allyl ricinolate, di(meth)allyl maleate, tri(meth)allyl phosphate, tri(meth)allyl isocyanurate and the like.

Examples of the monomer (a2) which can copolymerize with the allyl-based monomer (a1) are styrene, α -methylstyrene, divinylbenzene, vinyl biphenylcarboxylate, mono(meth)acrylate such as benzyl methacrylate, phenoxyethyl methacrylate, phenoxyethyl acrylate, 2-hydroxy-3-phenoxypropyl acrylate, methyl methacrylate, ethyl methacrylate, n-butyl methacrylate, isobutyl methacrylate, 2-ethylhexyl methacrylate, isodecyl methacrylate, n-lauryl methacrylate, n-stearyl methacrylate, methoxydiethylene glycol methacrylate, cyclohexyl methacrylate, tetrahydrofurfuryl methacrylate, isobornyl methacrylate, 2-hydroxyethyl methacrylate, 2-hydroxypropyl methacrylate, 2-hydroxyethyl acrylate, 2-hydroxypropyl acrylate, 2-hydroxybutyl methacrylate, dimethylaminoethyl methacrylate, diethylaminoethyl methacrylate, glycidyl methacrylate, tert-butyl methacrylate, isostearyl methacrylate, n-butoxyethyl methacrylate, isoamyl acrylate, lauryl acrylate, stearyl acrylate, butoxyethyl acrylate, ethoxyethylene glycol acrylate, methoxytriethylene glycol acrylate, tetrahydrofurfuryl acrylate, isobornyl acrylate, 2-hydroxyethyl acrylate, 2-hydroxypropyl acrylate,

2-acryloyloxyethylsuccinic acid, 2-acryloyloxyethylphthalic acid, isooctyl acrylate, isomyristyl acrylate, isostearyl acrylate and vinyl acetate, and the like.

In the allyl-based prepolymer (A) which is the copolymer, a weight ratio of the allyl-based monomer (a1) to the copolymerizable monomer (a2), (a1) : (a2) is 20 (excluding 20) to 100 : 80 to 0, preferably 30 (excluding 30) to 100 : 70 to 0, more preferably 40 to 100 : 60 to 0 expressed as percentage by weight.

The allyl-based prepolymer (A) is preferably a homopolymer of a diallyl phthalate-based monomer or a triallyl isocyanurate-based monomer, or a copolymer of another copolymerizable monomer and the monomer. More preferably, it is the homopolymer of the diallyl phthalate-based monomer or the copolymer of the copolymerizable monomer and the monomer. The most preferably, it is the homopolymer of the diallyl phthalate-based monomer.

There can also be suitably used a terpolymer of epichlorohydrin, ethylene oxide and allyl glycidyl ether, a terpolymer of diethylene glycol glycidyl methyl ether, ethylene oxide and allyl glycidyl ether, a terpolymer of 2-[1, 3-bis(2-methoxyethoxyethoxy)propyl glycidyl ether, ethylene oxide and allyl glycidyl ether, and the like.

The diallylphthalate-based monomer as a starting material of the diallyl phthalate-based prepolymer is a compound selected from the group consisting of a diallylorthophthalate monomer, a diallylisophthalate monomer and diallylterephthalate monomer, and a combination of two or more of them. In order to obtain the diallyl phthalate-based prepolymer by